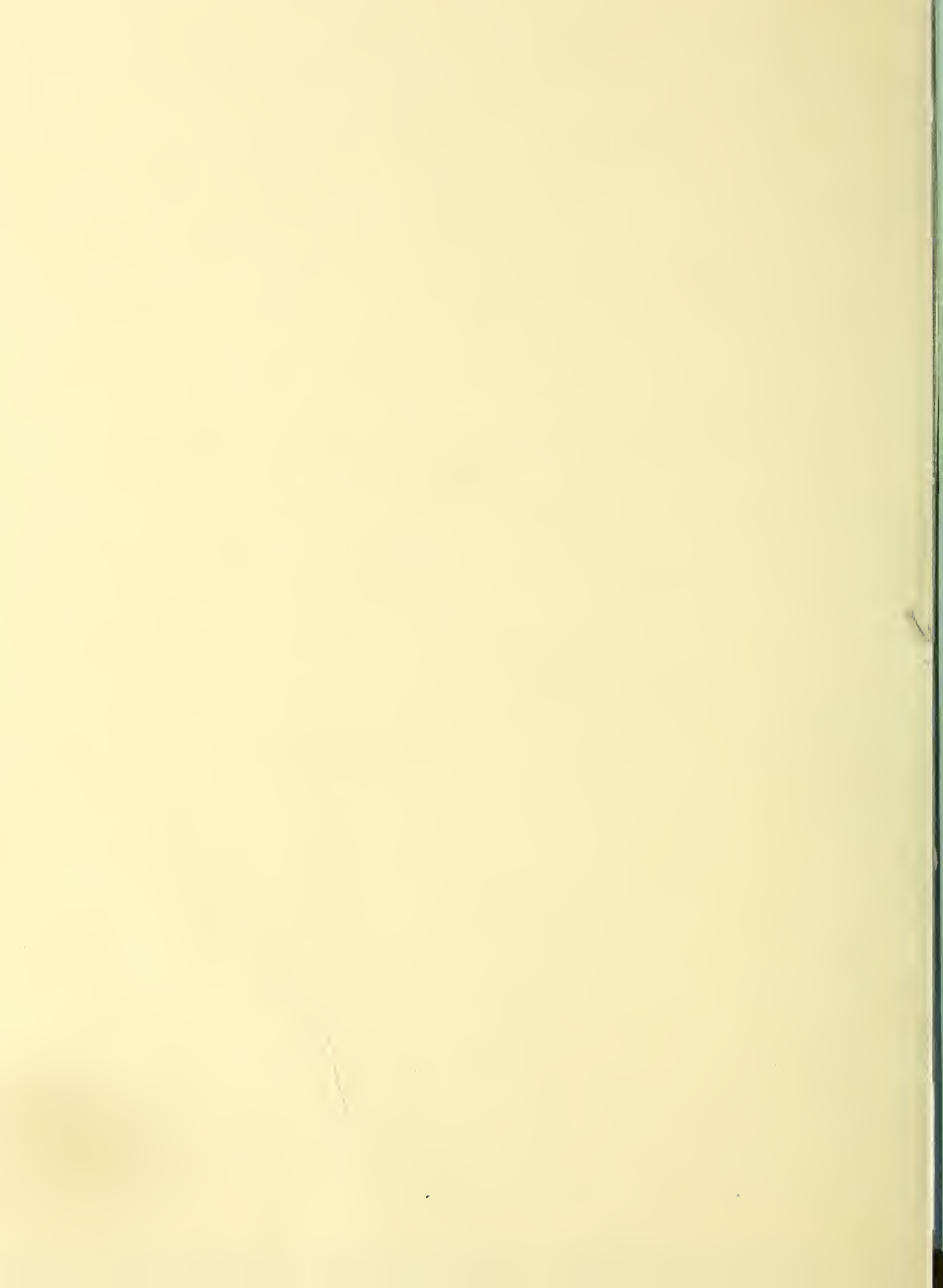


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AGRICULTURAL LIBRARIES INFORMATION NOTES



1979 STRENGTHENING GRANTS AND A STATISTICAL SUMMARY

BIFAD is the Board for International Food and Agricultural Development of the Agency for International Development, U.S. Dept. of State, Washington, D.C. 20523 (telephone: (202) 632-7938). Dr. Elmer Kiehl is Executive Director of the BIFAD staff as of January 1, 1980. In 1979 BIFAD made 46 University Strengthening Grants under Title XII of the Foreign Assistance Act of 1961, as amended by Section 312 of the International Development and Food Assistance Act of 1975.

Some universities chose to concentrate their strengthening program in one or two subject areas, and others focused on a specific type problem or methodological issue which cut across several subject areas. This is characterized briefly in the "Principal Subject Focus" (Attachment A). In virtually no case, however, are the strengthening activities of these universities entirely limited to this concentration or focus. Other institutions emphasize broad institutional strengthening, mobilization of total university resources relevant to Title XII, or development of several selected areas. These are characterized as "General." Similarly, some universities plan to concentrate on an area or limited number of countries as listed in the table. With regard to foreign language involvement, where more than one language is indicated, the principal language is underscored.

The Statistical Summary (Attachment B) lists AID and the universities' contributions for the first year and for the five year total grant period. This summary also indicates the universities' planned overseas activities as a percentage of total program (AID plus university contribution) for the first year and for the five-year program. The overall percentage for overseas contributions for the 42 "Matching" grants is 21 percent for the first year and also, coincidentally, 21 percent, for the five-year program. The overall percentage in the case of the four minority "Non-Matching" grants is 24 percent for the first year and 23 percent for the total five-year program.

(BIFAD, Continued on p. 2)

This category of activities includes foreign travel and per diem, sabbaticals, visiting scholars from Lesser Developed Countries (LDC), training of LDC graduate students in U.S. institutions and of U.S. students in LDC institutions, including thesis research and similar expenditures.

It must be noted, however, that these figures are approximate estimates of overseas expenditures due to the fact that some AID and university funds for the items listed above are not specifically spelled out in the strengthening grant budgets, therefore making it difficult to distinguish overseas from domestic funds.

The data listed in the table substantially understates the university contributions. A random sample of 10 universities indicates the overhead contribution is about 30 percent of total direct costs of the AID plus university program contribution. Also, many universities indicate substantial corollary activities to be linked directly to but not counted as part of the strengthening program. (From *BIFAD BRIEFS*, Oct/Nov. 1979).

CHARACTERIZATION OF STRENGTHENING GRANTS

ATTACHMENT "A"

University	Principal Subject (Focus)	Regional Focus	Countries Mentioned	Activity or Disciplinary Areas	Foreign Language, if any (Major Emphasis Underscored)
U. of Arizona	Agr. production systems for arid climates, Women in Development	Mid East N. Africa	Sahelian countries	Agr. & nutrition tech.; range mgt.; animal prod. systems; small scale agr. prod. systems; WID in food production;	<u>French</u> <u>Arabic</u>
Auburn U.	Aquaculture	Worldwide	Indonesia, Egypt Sudan, Philippines Jamaica, Colombia Burundi	Aquaculture; economics, appropriate technology in inland fisheries and aquaculture, marketing, project planning and design	
Cal. St. U. (Fresno)	Shifts from arid to irrigation agric.; grape production	Africa Near East Asia	Malaysia, Thailand, Philippines	Agr. prod.; farm mgt.; irrigation tech.; viticulture-enology; food science & nutrition; rural development; institution building;	
Cal. St. U. (Pomona)	Large animals, Semen management, Sewage utilization	Africa Latin America	Tanzania; Bolivia, Mexico	Semen research & art. insemination tech. for small ruminants; nutrition; drip irrigation; meat tech. & beef cattle mgt.; pest mgt.;	<u>French</u> <u>Spanish</u>
Colorado St. U.	Arid and Semi-Arid Areas	Africa, Near East, Latin America	Nigeria, Pakistan, Kenya, Brazil, Venezuela, Peru, Egypt, Lesotho	Soil & water mgt., crop & livestock prod. systems; rural development; eco. development planning; food science & nut.;	French
Cornell U.	Interdisciplinary methodology	Latin America Caribbean	Mexico, Ecuador	International agriculture; rural development; nutrition;	
U. of Delaware	General	C. America	Haiti, Jamaica, Panama, Costa Rica, Guatemala, Domin. Republic	Fisheries & aquaculture; post harvest preservation & processing; human resources; anthropology; agriculture; milk goat management	Spanish
U. of Florida	Tropical agriculture	Latin America Africa, Asia		Technical assistance (research, technology transfer); agricultural production; urban and rural development	<u>French</u> <u>Spanish</u>
U. of Hawaii	Tropical Agriculture & Human Resources	Asia	Philippines Indonesia	Rural dev.; women in dev.; crop protection/soils; tropical agr. research & dev. systems; nutrition; small farm operations; animal health; engg. tech.;	
U. of Illinois	General	Africa Asia Latin America		Crop protection & soils, animal & animal health; human nutrition; engineering tech.; rural social sciences; extension communication & adult education	<u>Spanish</u> French
Iowa St. U.	General	W. Africa Far East W. So. America Cent. America	India, Philippines, Costa Rica, Ghana, Egypt, Thailand, Indonesia	Rural dev.; rural social sciences; mgt. of fertility resources; food prod.; appropriate technology development & transfer	Spanish
Kansas St. U.	Farming Systems Methodology	East Africa Near East	Sri Lanka, Morocco, Tunisia, Kenya, Afghanistan	Farming systems research; nutrition; faculty development; curriculum development; institutional dev.;	<u>French</u> Spanish
U. of Kentucky	Minimum and no-tillage agriculture; Project Mgt. Methodology	Caribbean Africa Asia Latin America	Ghana	Farming systems improvement (no-tillage) project analysis, design & evaluation; research & development programs	
Louisiana St. U.	Rice (emphasizes small farm, marketing)	Latin America Asia Africa	Liberia, Sierra Leone, Guyana, Thailand, Brazil, Philippines	Agriculture; rural development; rice prod.; agr. economics; agr. engg.; irrigation; entomology; plant pathology; agr. res.; teaching & extension; marketing	French

(BIFAD, Continued from p. 2)

University	Principal Subject (Focus)	Regional Focus	Countries Mentioned	Activity or Disciplinary Areas	Foreign Language, if any (Major Emphasis Underlined)
U. of Maine (Orono)	General	Latin America French speaking Africa		Small farming systems; fisheries & aquaculture; human nutrition; food; health; rural development	French Spanish
U. of Maryland	General	South Asia Africa		Agr. marketing systems; livestock production systems; crop production systems; rural development; policy analysis & planning	
Michigan St. U.	General	Africa Asia Latin America	Sierra Leone, Nepal, Panama, Swaziland, Sahel, Dem. Rep., Thailand	Food crop production; livestock production; agr. marketing systems; rural development; policy analysis and planning	French
U. of Minnesota	General	N. & W. Africa Latin America		Agr. dev. plan.; agr. educ.; social impacts of dev. programs; nutrition policy analysis & plan.; A public health rural & small farm dev.	French
U. of Missouri (Columbia)	Family centered approaches to agriculture and rural development	Fr. W. Africa Near East Asia Latin America		Food; health; nutrition; agricultural and rural development	French Spanish Arabic
Montana St. U.	General	None	Specific	Land, soil & water mgt.; integrated farm production systems; human nutrition & food utilization; rural development	
U. of Nebraska (Lincoln)	Agric. & rural dev. in areas of marginal rainfall	Africa	Egypt, Niger Yemen, Sudan	Crop tech. & prod. systems; range & livestock prod. systems; engr. & nat. resource mgt.; human resources dev.; eco. & mgt.	Spanish French Farsi Arabic
New Mexico St.	Rangeland Agric.	Arid & semi-arid Africa Near East Latin America		Rangeland mgt.; animals & food; eco. & social systems of people who depend on rangeland resources	
N. C. State	Understanding technology transfer, adaptation & use under severe capital constraints	Latin America	Colombia, Peru	Small family farm; agricultural res. & extension; tech. transfer; prog. linkages w/ domestic inst.; int'l. centers & LDC nat'l. res. programs	
Ohio St. U.	General	Latin America E. Africa Asia	India	Agr. prod. (crops/livestock); agr. mkt. systems; rural dev.; WID; nut.; rur. employment; credit services; farm prod. storage, processing, distribution;	Spanish Portuguese & E. Afr. languages
Oklahoma St. U.	General	Africa Asia Latin America		Human nutrition; engineering agr.; marketing; tropical crops & soils food production & distribution; storage	French Spanish
U. of Puerto Rico	Tropical Agric., Aquaculture	Central America Caribbean	El Salvador, Costa Rica, Dom. Rep., Venezuela, Haiti, Panama	Agr. economics; food crop prod.; agr. engr.; nutrition; animal prod.; farm mgt. & mkt.; aquaculture prod.; rural dev.; rural sociology;	Spanish
Purdue U.	General	LA, Asia Central W. Africa Near East	Brazil, Afghanistan India	Agr. prod.; sociology, anthropology; research, extension & training; nut.; fisheries & aquaculture; tillage systems; livestock mgt.;	French
U. of Rhode Island	Fisheries, General	Central & So. America		Teaching, res. & extension in marine science & tech. areas - esp. fisheries; food science, human nutrition & dietetics; rur. dev.; policy anal. & plan.	
Rutgers	General	E & W Africa Caribbean Central America	Nigeria, Puerto Rico,	Human nut.; small farmers & villages extension info.; anthropology; agr./econ. mkt.; food sciences; food prod. (agronomy & horticulture)	French Spanish
Sam Houston St.	Development of specific action models for LDC use	Asia Africa	Indonesia, Nigeria Malaysia	Agr. delivery systems; small farmers development; rural development; agr. policy analysis & planning; agr. inst. of education; nutrition;	
So. Dakota St.	General	S. Africa	Botswana	International agriculture; nutrition; rural development	French Spanish
So. Illinois - (Carbondale)	General	Latin America Africa Asia	Nepal Brazil Caribbean	Fish prod. systems; animal prod. systems; plant production systems; agr. & rural development;	
U. of Tennessee	Information systems for small farm families	Latin America Africa Asia		Agr. economics; rural sociology; small farm development	French Spanish
Texas A & M	Interdisciplinary Systems Model approach to agr. prod. & hum. nut.	Africa Near East Asia Latin America	Philippines, Peru, Mexico Colombia	Rural development; WID; small farmer food prod.; nutrition; agricultural production	Spanish French Portuguese
Texas Tech.	Arid & semi-arid agriculture	N. Africa Mid East Latin America	Sahel	Human nutrition; crop & livestock prod.; rur. dev. in arid & semi-arid regions; range management; water management	French Spanish
Tuskegee	General	Africa Asia Latin America		Food and nutritional sciences; cultural awareness	French
Utah St. U.	General	Near East, Asia Latin America	Bolivia, Honduras, Peru, Yemen, Venezuela, Tanzania	Food crop & animal prod. & mkt. systems; irrigated & dryland farming; forestry; range & watershed prod. & mgt.; human & animal nutrition;	French Spanish
U. of Vermont	General	Africa Near East Latin America	Mexico, Pakistan, Malaysia, Colombia, Ecuador, Ghana, Nigeria, Venezuela	Human & animal nutrition; rural sociology; rural livestock technology; sociological economics; bungee & cultural awareness	
Va. Polytechnic Institute	Nutrition focused food production	Latin America Africa Asia	Brazil, Guatemala, Haiti, Nigeria, Philippines, Uruguay, Venezuela	Nutrition, food production, social sciences	French Portuguese Spanish
Va. State U.	Agricultural Credit for African farmers	Africa W. Africa	Kenya, Liberia, Ghana	Agricultural credit	French

(BIFAD, Continued on p. 4)

(BIFAD, Continued from p. 3)

University	Principal Subject (Focus)	Regional Focus	Countries Involved	Activity or Disciplinary Areas	Foreign Language, if any (Major Emphasis Underlined)
Washington St. U.	General	C. & S. Amer. Mid & Far East Africa	Jordan, Lesotho, W. Sudan	Land water use planning & mgt.; livestock prod. & mgt.; agronomy; soils, eco.; engr.; food, nutrition, and rural development	Arabic French Spanish
U. of Misc. - River Falls	Vocational agric. at secondary school & adult level	Africa Latin America Asia	Tanzania, Bolivia, Nigeria, Thailand, Ecuador	Food science & nutrition; agr. educ. & extension; agr. engr.; animal & dairy science; horticulture; agronomy; agr. & applied economics;	French Spanish

MINORITIES (NON - MATCHING)

Alabama A&M	General	W. Africa S. & SE Asia	Nigeria, Ghana	Food & nutrition; soils & agronomy; extension and rural development;	French Spanish Swahili
Lincoln U.	Human nutrition, small farm systems	Africa Caribbean	Cameroon, Sierra Leone, Ivory Coast	Human nutrition; animal production efficiency; small farm production systems;	French
N. Carolina A&T	Small farm tech. & marketing analysis for rur. dev.	W., E. & So. Africa Caribbean		Appropriate agr. technology; teaching, research, extension, & advisory service programs in Agr., Home Economics; food; nutrition; rural development;	French
Va. St. U.	Economics of agricultural & rural development	Africa	Ghana, Liberia, Kenya, Jamaica, Guyana	Eco. research in agr. & rur. development; strengthen production/mgt. capacity including small agr. bus. units; food & nutrition; marketing distribution;	French

STATISTICAL SUMMARY

ATTACHMENT "D"

UNIVERSITY	Budget Contributions 1st year (thlv)			Budget Contributions 5 years Univ.			% Overruns Contributions	
	AID	Total		AID	Total		1st-year	5-years
U. of Arizona	\$100,000	\$100,000	\$200,000	\$ 600,000	\$ 600,000	\$1,000,000	16%	41%
Auburn U.	\$100,000	\$100,000	\$200,000	\$ 500,000	\$ 500,000	\$1,000,000	3%	2%
Cal. St. U. (Fresno)	\$ 80,152	\$ 80,152	\$176,104	\$ 461,347	\$ 461,347	\$ 926,694	30%	37%
Cal. St. U. (Pomona)	\$ 92,690	\$101,094	\$193,604	\$ 437,710	\$ 607,640	\$ 945,120	12%	11%
Colorado St. U.	\$163,333	\$166,992	\$329,326	\$ 016,666	\$ 031,037	\$1,749,702	20%	22%
Cornell U.	\$100,000	\$138,986	\$238,986	\$ 500,000	\$ 815,376	\$1,315,376	67%	67%
U. of Delaware	\$100,000	\$138,700	\$238,700	\$ 470,000	\$ 589,700	\$1,059,700	26%	29%
U. of Florida	\$100,000	\$102,956	\$202,956	\$ 500,000	\$ 529,560	\$1,029,560	41%	40%
U. of Hawaii	\$100,000	\$136,000	\$236,000	\$ 500,000	\$1,224,000	\$1,724,000	10%	6%
U. of Illinois	\$112,000	\$213,000	\$325,000	\$ 560,000	\$1,065,000	\$1,625,000	8%	8%
Iowa State U.	\$100,000	\$117,109	\$217,109	\$ 500,000	\$ 635,485	\$1,135,485	22%	18%
Kansas St. U.	\$137,600	\$165,429	\$303,029	\$688,000	\$ 910,778	\$1,598,778	16%	15%
U. of Kentucky	\$100,000	\$128,423	\$228,423	\$500,000	\$ 695,623	\$1,195,623	23%	24%
Louisiana St. U.	\$100,000	\$100,000	\$200,000	\$500,000	\$ 500,000	\$1,000,000	5%	5%
U. of Maine (Orono)	\$100,000	\$100,000	\$200,000	\$500,000	\$ 500,000	\$1,000,000	28%	32%
U. of Maryland	\$100,000	\$173,600	\$273,600	\$500,000	\$1,501,643	\$2,001,643	21%	16%
Michigan St. U.	\$300,000	\$300,000	\$600,000	\$1,500,000	\$1,759,980	\$3,259,980	11%	12%
U. of Minnesota	\$100,000	\$125,000	\$225,000	\$ 500,000	\$ 635,000	\$1,135,000	13%	14%
U. of Missouri (Columbia)	\$100,000	\$174,200	\$274,200	\$ 500,000	\$ 871,000	\$1,371,000	8%	9%
Montana St. U.	\$100,000	\$100,063	\$200,063	\$ 800,000	\$ 803,430	\$1,003,430	40%	62%
U. of Nebraska	\$100,000	\$124,000	\$224,000	\$ 800,000	\$ 715,000	\$1,215,000	30%	36%
New Mexico St.	\$100,000	\$100,000	\$200,000	\$ 500,000	\$ 551,092	\$1,051,092	11%	11%

(BIFAD, Continued on p. 5)

UNIVERSITY	Budget Contributions 1st year			Budget Contributions 5 years			% Overseas Contributions	
	AID	Univ	Total	AID	Univ	Total	1st-year	5-years
No. Carolina St.	\$100,000	\$100,000	\$200,000	\$ 500,000	\$ 500,000	\$1,000,000	10%	10%
Ohio St. U.	\$100,000	\$169,000	\$269,000	\$ 500,000	\$ 845,000	\$1,345,000	20%	33%
Oklahoma St. U.	\$100,000	\$106,511	\$206,511	\$ 500,000	\$ 536,911	\$1,036,911	28%	27%
U. of Puerto Rico (Mayaguez)	\$100,000	\$185,032	\$285,032	\$ 500,000	\$1,120,048	\$1,620,048	12%	15%
Purdue U.	\$185,000	\$185,000	\$370,000	\$ 925,000	\$ 970,000	\$1,895,000	21%	21%
U. of Rhode Island	\$ 99,375	\$126,175	\$225,550	\$ 496,875	\$ 758,346	\$1,255,221	6%	11%
Rutgers	\$100,000	\$136,727	\$236,727	\$ 500,000	\$1,344,939	\$1,844,939	2%	1%
Sam Houston St. U.	\$100,000	\$105,619	\$205,619	\$ 500,000	\$ 574,868	\$1,074,860	38%	36%
So. Dakota St.	\$100,000	\$127,890	\$227,890	\$ 600,000	\$ 703,735	\$1,203,735	26%	25%
So. Illinois U. (Carbondale)	\$100,000	\$116,230	\$216,230	\$ 500,000	\$ 671,128	\$1,171,128	11%	10%
U. of Tennessee	\$100,000	\$100,000	\$200,000	\$ 600,000	\$ 664,000	\$1,054,000	23%	17%
Texas A&M	\$208,028	\$210,528	\$410,556	\$1,040,000	\$1,052,500	\$2,092,500	12%	12%
Texas Tech	\$100,000	\$153,139	\$253,139	\$ 500,000	\$ 821,949	\$1,321,949	17%	14%
Tuskegee	\$ 29,550	\$ 30,700	\$ 60,260	\$ 151,709	\$ 154,670	\$ 306,207	-	15%
Utah St. U.	\$164,495	\$165,507	\$330,002	\$ 822,475	\$ 951,421	\$1,773,896	10%	11%
U. of Vermont	\$ 99,731	\$101,940	\$200,000	\$ 498,000	\$ 700,070	\$1,198,070	31%	20%
Va. Poly. Inst.	\$100,000	\$100,000	\$200,000	\$ 500,000	\$ 506,660	\$1,006,660	26%	24%
Va. State U.	\$ 50,000	\$ 50,000	\$100,000	\$ 282,396	\$ 282,396	\$ 564,792	36%	29%
Washington St. U.	\$100,000	\$100,000	\$200,000	\$ 500,000	\$ 500,000	\$1,000,000	16%	16%
U. of Wisconsin (River Falls)	\$ 99,875	\$ 99,970	\$199,845	\$ 449,445	\$ 520,561	\$1,020,006	14%	17%

STATISTICAL SUMMARY

Page 6

(MINORITIES - NON-MATCHING)

UNIVERSITY	Budget Contributions 1st year			Budget Contributions 5 years			% Overseas Contributions	
	AID	Univ	Total	AID	Univ	Total	1st-year	5-years
Alabama A&M	\$103,128		\$103,128	\$500,000		\$500,000	33%	24%
Lincoln U.	\$ 79,773		\$ 79,773	\$500,000		\$500,000	17%	21%
No. Carolina A&T	\$101,000		\$101,000	\$500,000		\$500,000	26%	30%
Va. St. U.	\$150,000		\$150,000	\$500,000		\$500,000	21%	17%

Attachment III. Country/Mission Visits and Team Members

Asia

Pakistan, Thailand,
Philippines, Nepal,
Papua New Guinea
(March 23 - April 24, 1979)

Dr. Lon Cesal, BIFAD Staff
Dr. Elmer Kiehl, University
of Missouri
Mr. Cal Martin, AID/ASIA
Dr. Jackson Rigney, JCAD and
North Carolina State University

Latin America/Caribbean

Guatemala, Costa Rica,
Panama
(May 9 - 23, 1979)

Mr. Richard Hughes, LAC/DR
Mr. Peter McPherson, Member of
BIFAD
Dr. John Murdock, JCAD and
MUCIA
Dr. Morris Whitaker, BIFAD Staff

Africa

Senegal, Mali,
Cameroon, Ivory Coast
(April 18 - May 3, 1979)

Mr. Quincy Benbow, AFR/DR/ARD
Dr. James I. Kirkwood, JCAD and
Fort Valley State College
Dr. Hugh Popenoe, JRC and
University of Florida

Dominican Republic,
Haiti
(August 3 - 8, 1979)

Mr. Richard Hughes, LAC/DR
Dr. Richard Merritt, JCAD and
Rutgers University
Dr. Hugh Popenoe, JRC and
University of Florida
Dr. H.F. Robinson, JCAD and
Western Carolina University

Kenya, Somalia,
Tanzania, Sudan
(Sept. 30- Oct. 21, 1979)

Dr. Douglas Butchart, AFR/DR
Charles French, DS/XII
Peter Koffsky, USDA
Dr. Lowell Watts, JCAD and
Colorado State University

Bolivia, Peru, Colombia (To be determined)
(January 1980)

Near East

(Visits to be planned at November 13, 1979 RWG meeting)

BIBLIOGRAPHIES AND LITERATURE OF AGRICULTURE

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AQUACULTURE AND HYDROPONICS, A BIBLIOGRAPHY. 1979. 71 p. RLA 2

BIBLIOGRAPHY OF AGRICULTURAL BIBLIOGRAPHIES, 1977. 1978 BLA 1

ENERGY FOR AGRICULTURE: A COMPUTERIZED RETRIEVAL SYSTEM 1979. 408 p. RLA 5

SORGHUMS AND MILLETS BIBLIOGRAPHY, APRIL 1976-AUG. 1978 1979. 186 p. RLA 4

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AGRICOLA USER'S GUIDE,
1979. Folder.

GUIDE TO MANUSCRIPTS IN THE
NATIONAL AGRICULTURAL LIBRARY,
1979. 39 p. (Miscellaneous Publication 1374)

SOLAR ENERGY AND NON-FOSSIL FUEL
RESEARCH: A DIRECTORY OF PROJECTS
RELATED TO AGRICULTURE, 1976-79,
1979. Various p. (Miscellaneous
Publication 1378)

ORAL HISTORIES

Crown Zellerbach: Timber, Technology, and Corporate Development in the Pacific Northwest, 1920 to 1965. 1979, 310 p. For information write Forest History Society, Inc., 109 Coral Street, Santa Cruz, CA 95060.

Lester Rowntree: California Native Plant Woman. 1979, 344 p. For information contact Regional Oral History Office, 486 The Bancroft Library, University of California, Berkeley 94720; telephone: (415) 642-7395.

Reflections on the Sierra Club, the Environment, and Mountaineering, 1950's-1970's. 297 p. \$37. Order from Region Oral History Office, 486 The Bancroft Library, University of California, Berkeley 94720. Telephone: (415) 642-7395.



The "Purposes" of the National Forests-A Historical Reinterpretation of Policy Development. N. Wengert, A. A. Dyer, A. Deutsch. Fort Collins, Co., 1979. various p. Free. Order from Henry Deutsch, 2420 Stanford, Fort Collins, CO 80521.

A report to the U.S. Forest Service prepared pursuant to a contract dated September 26, 1977, between Colorado State University and the Forest Service.

Videotext: The Coming Revolution in Home/Office Information Retrieval. E. Sigel, C. McIntyre, M. Wilkinson, and J. Roizen. 154 p. \$24.95. White Plains, Knowledge Industry Publications, Inc. NY 10604 ISBN: 0-914236-41-5. Order from publisher: 2 Corporate Park Drive.

**Alternative Energy Demand Futures to 2010 (Study of Nuclear and Alternative Energy Systems).* Demand/Conservation Panel, Committee on Nuclear and Alternative Energy Systems; National Research Council (National Academy of Sciences, 1979; 292 pp.; ISBN 0-309-02939-2; \$8.50).

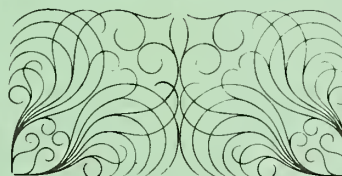
**Animals as Monitors of Environmental Pollutants.* Symposium on Pathobiology of Environmental Pollutants: Animal Models and Wildlife as Monitors, University of Connecticut, 1977; sponsored by

**Documents marked with an asterisk (*) are available from the Office of Publications, National Academy of Sciences, 2101 Constitution Avenue, N.W., Washington, D.C. 20418.*

Northeastern Research Center for Wildlife Diseases, University of Connecticut, Storrs; Registry of Comparative Pathology, Armed Forces Institute of Pathology, Washington, D.C.; and Institute of Laboratory Animal Resources, Division of Biological Sciences, Assembly of Life Sciences, National Research Council (National Academy of Sciences, 1979; 433 pp.; ISBN 0-309-02871-X; \$20.50).

**Animals for Research: A Directory of Sources (Tenth Edition, Revised 1979).* Institute of Laboratory Animal Resources; Division of Biological Sciences, Assembly of Life Sciences, National Research Council (National Academy of Sciences, 1979; 150 pp.; ISBN 0-309-02920-1; \$6.25).

Aquatic Weed Management: Integrated Control Techniques for the Gezira Irrigation Scheme. Report of a workshop, 3-6 December 1978, sponsored by University of Gezira, Democratic Republic of Sudan; and Board on Science and Technology for International Development, Commission on International Relations, National Research Council, National Academy of Sciences of the United States of America (University of Gezira, 1979; 102 pp.; available from Board on Science and Technology for International Development; supply limited).





Agricultural, Forestry, and Rural Energy Act of 1979. H.R. 5397. Promotes development of energy from agricultural commodities, forest products, wastes, residues, and rural energy conservation practices. Referred jointly to the Committees on Agriculture, Banking, Finance and Urban Affairs, Interstate and Foreign Commerce and Science and Technology. Introduced September 25, 1979; pending in committee.

Agricultural Land Protection Act. H.R. 2551. Establishes internal Federal policy; assists state and local governments to develop and test methods of reducing farmland conversion at the local level by providing up to 50 percent of the cost of developing and testing agricultural land protection programs. Reported from House Agriculture Committee November 16 (Report 96-654).

Animal Cancer Research Act. S. 2042. Provides for basic research in the diagnosis, prevention, and control of malignant tumors in domestic animals, poultry and wildlife, including birds and identification of common factors in both human and animal malignant tumors. Introduced November 26, 1979; pending in committee.

Biomass Research and Development Authorization Act of 1979. H.R. 5428. Provides for research and development programs to increase the utilization of biomass. Introduced September 27, 1979; pending in committee.

Wind Energy Systems Research Development, and Demonstration Act of 1979. H.R. 5892. Provides for accelerated program of wind energy research, development and demonstration, to be carried out by the Department of Energy with the support of the National Aeronautics and Space Administration and other Federal Agencies.

House Committee reported November 27, 1979; House passed bill December 4, 1979, under suspension of rules. Referred to Senate Energy and Natural Resources December 6, 1979.



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(AAT-NC) Peoria, IL, U.S. Dept. of
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April 13-14: *ASSOCIATION OF EDUCATIONAL DATA SYSTEMS, 1980 CONFERENCE*. St. Louis, Mo. Contact: Dr. Arlan Dekock, Dept. of Computer Science, University of Missouri, Rolla, MO 65401; (telephone 314-341-4491).

April 23-30: *14th INTERNATIONAL SYMPOSIUM ON REMOTE SENSING OF THE ENVIRONMENT*. San Jose, Costa Rico. Contact: Dr. Jerald J. Cook, Environmental Research Institute of Michigan, P.O. Box 8618, Ann Arbor, MI 48107 (telephone 313-994-1200).

April 13-18: *FEDERATION OF AMERICAN SOCIETIES FOR EXPERIMENTAL BIOLOGY*. Anaheim, Calif. Contact: FASEB, 9650 Rockville Pike, Bethesda, MD 20014.

April 15-17: *4th INTERNATIONAL SYMPOSIUM ON LIVESTOCK WASTES*. Amarillo, Tx. Contact: M. Purschwitz, American Society of Agricultural Engineers, 2950 Niles Rd., St. Joseph, MO 49085.

April 21-25: *BIO-ENERGY WORLD CONGRESS AND EXPOSITION (BIO-ENERGY '80)*. Atlanta, Ga. Contact: P. Schauffler, REC, 1625 Eye St., N.W., Suite 825-A, Washington DC 20006.

May 11-14: *LIFE CYCLE PROBLEMS AND ENVIRONMENTAL TECHNOLOGY*. Marriott Hotel, Philadelphia, Pa. Abstracts of proposed technical papers due October 15, 1979. Henry Caruso, Westinghouse Electric Corp., Box 746. Mail Stop 504 Baltimore, MD 21103 (telephone: 301-765-2541).

May 12-15: *WORKSHOP ON PEST MANAGEMENT WITH MICROBIAL AGENTS: RECENT ACHIEVEMENTS, DEFICIENCIES, AND INNOVATIONS*. Sponsored by the Insect Pathology Resource Center, Boyce Thompson Institute, Tower Road, Cornell University, Ithaca, N.Y. 14853; Cornell University Department of Entomology; and USDA's SEA-AR Insect Pathology Research Unit at Boyce Thompson Institute. Contact: Donald W. Roberts, IPRC Coordinator, at Boyce Thompson address above (telephone: 607-257-2030).

August 17-20: *TREES IN THE 21st CENTURY*. An international conference organized by the Arboricultural Association in conjunction with the International Society of Arboriculture. To be held at the University of Sussex, Brighton, England. U.S. contact: Gordon King, Dept. of Landscape Architecture and Regional Planning, University of Massachusetts, Amherst, MA 01003.

Sept. 15-19: *INTERNATIONAL SEMINAR ENERGY CONSERVATION AND THE USE OF SOLAR AND OTHER RENEWABLE ENERGIES IN AGRICULTURE, HORTICULTURE AND FISHCULTURE*. London, England. Contact: Frederick Vogt, Polytechnic of Central London, 35 Marylebone R., London NW1 4LS, England. (Telephone: 01-486-5811, Ext. 284).

(DATEBOOK, Continued on page 12)

(DATEBOOK, Continued from page 11)
May 13-15: *SYMPOSIUM ON THE HISTORY OF AGRICULTURE IN THE SOUTHWEST*.
Contact: Irving M. May, Jr., Dept. of Agricultural Economics, Texas A&M University, College Station, TX 77843 (telephone: 713-845-5043).

June 15-18: *AMERICAN DAIRY SCIENCE ASSOCIATION*. Blacksburg, Va. Contact: C. Cruse, ADSA, Illinois Bldg., Rm. 311, 113 N. Neil St. Champaign, IL 61820.

June 29-July 2: *CONFERENCE ON VITAMIN B6 METHODS - NUTRITION STATUS*. Timberline Lodge, Ore. Contact: James Keklem, Oregon State University, Depts. of Foods and Nutrition, Corvallis, OR 97331.

July 1980: *AMERICAN VETERINARY MEDICAL ASSOCIATION*. Washington, D.C. Contact: D. A. Price, AVMA, 930 N. Meacham Rd., Schaumburg, IL 60196.

June 29-July 3: *WORLD CONGRESS - FOODBORNE INFECTIONS & INTOXICATIONS*. West Berlin, Germany. Contact: German Convention Services, Kongressorganisation Walter E. Stohrer, OHG, Joachimstaler Strasse 17, D-1000 Berlin 15, Germany.

July 6-11: *FOREST PRODUCTS RESEARCH SOCIETY*. Boston, Mass. Contact: FPRS 2801 Marshall Ct., Madison, WI 53705.


July 27-30: *AMERICAN AGRICULTURAL ECONOMICS ASSOCIATION*. Urbana, IL. Contact: J. C. Redman, AAEA, c/o Dept. of Agric. Econ., Univ. of Kentucky, Lexington, KY 40506.

July 27-31: *AMERICAN SOCIETY OF ANIMAL SCIENCE*. Ithaca, N.Y. Contact: D. C. England, Dept. of Animal Science, Oregon State Univ., Corvallis, OR 97331.

August 3-9: *16th INTERNATIONAL CONGRESS OF ENTOMOLOGY*. Kyoto, Japan. Contact: James S. Packer, Entomological Society of America, 4603 Calvert Rd., College Park, MD 20705

August 24-28: *AMERICAN/CANADIAN PHYTOPATHOLOGICAL SOCIETIES*. Minneapolis, Minn. Contact: R. J. Tarteton, APS, 3340 Pilot Knob Rd., St. Paul, MN 55121.

August 10-14: *WESTERN HEMISPHERE NUTRITION CONGRESS VI*. Los Angeles, Calif. Contact: Max Milner, Executive Officer, American Institute of Nutrition, 9650 Rockville Pike, Bethesda, MD 20014.

October 1980: *COUNCIL OF BOTANICAL & HORTICULTURAL LIBRARIES*. New York, N.Y. Contact: Charles R. Long, Library, New York Botanical Garden, Bronx, NY 10458. 



This seventeenth-century illustration of the recently discovered pineapple bears little botanical similarity to the actual fruit.

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